

FIG.2

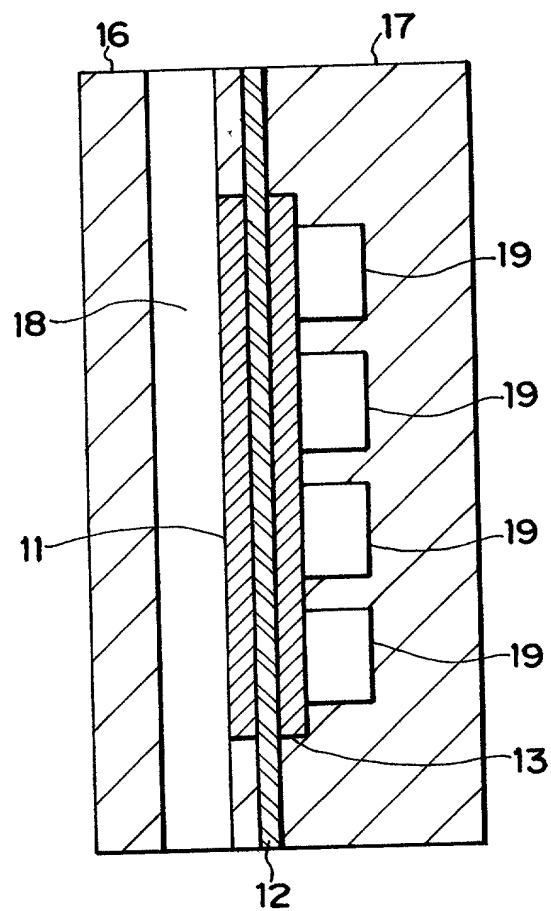


FIG.3

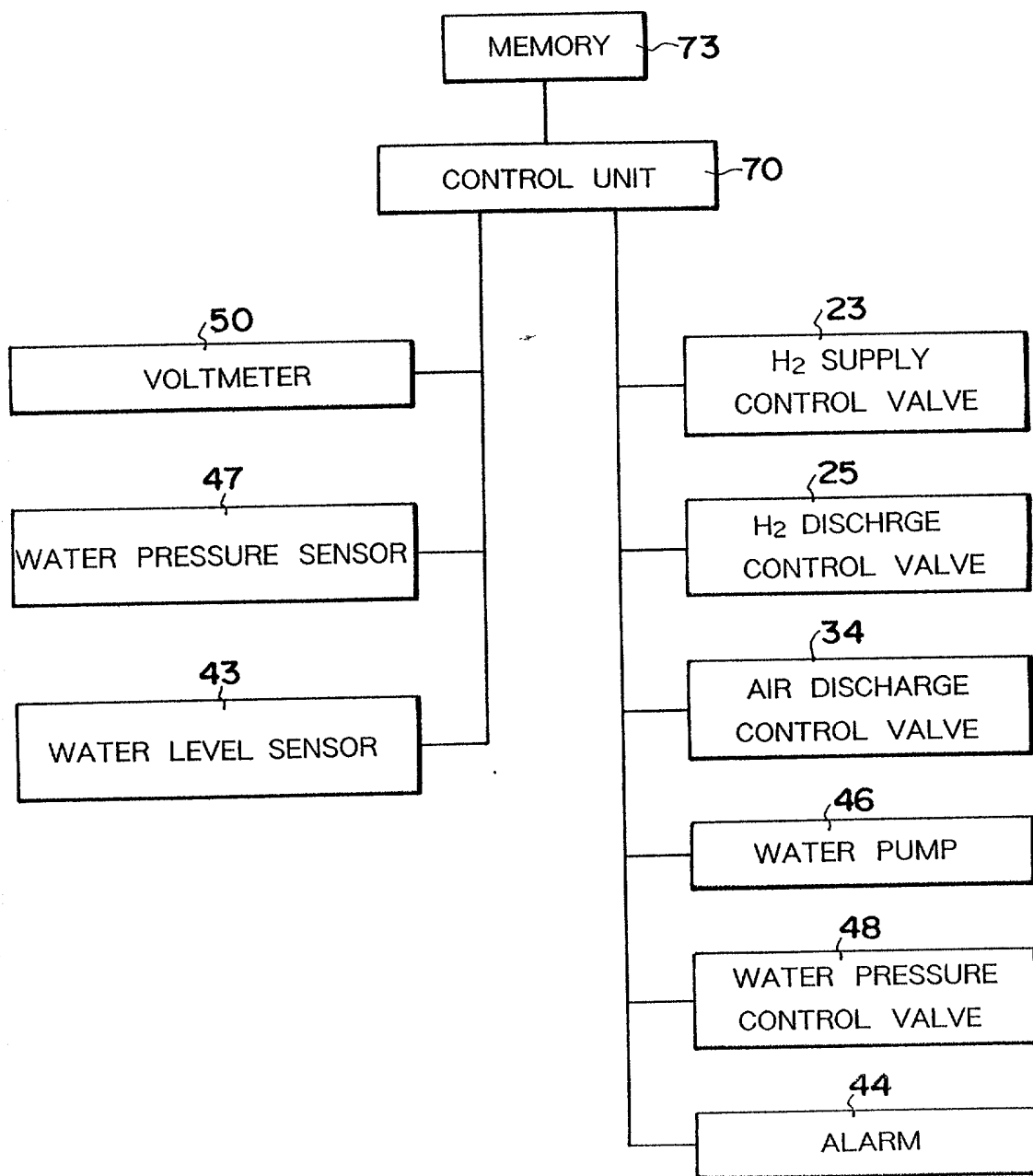


FIG.4

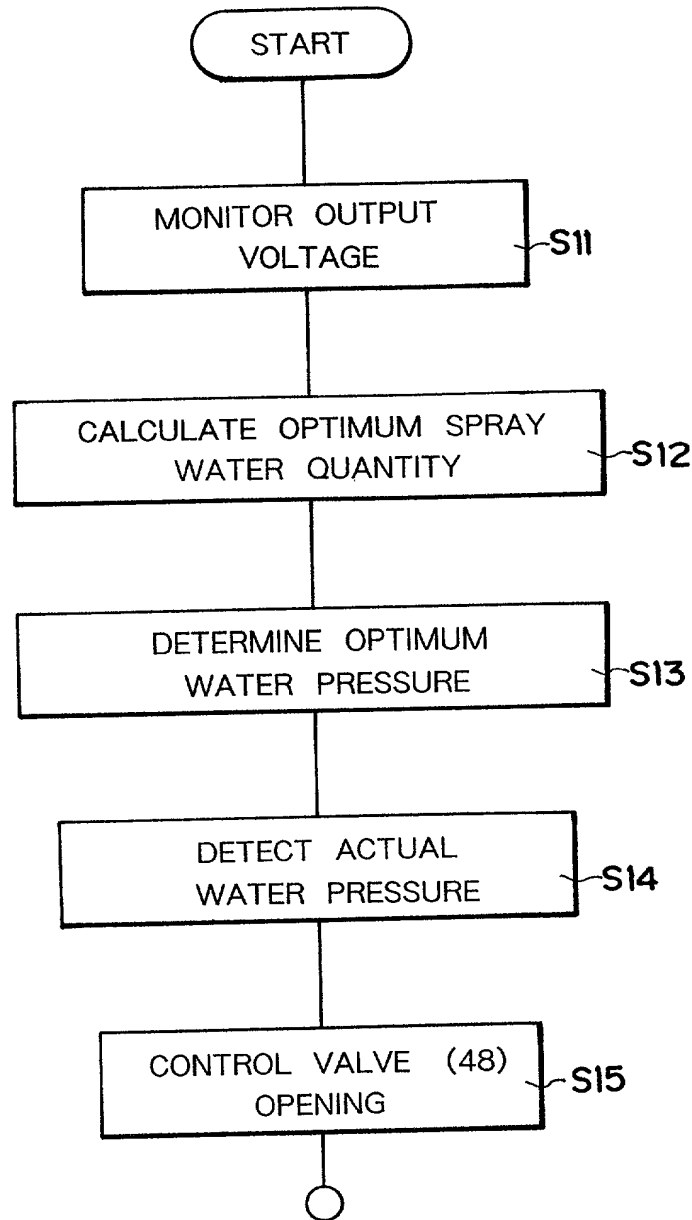


FIG.5

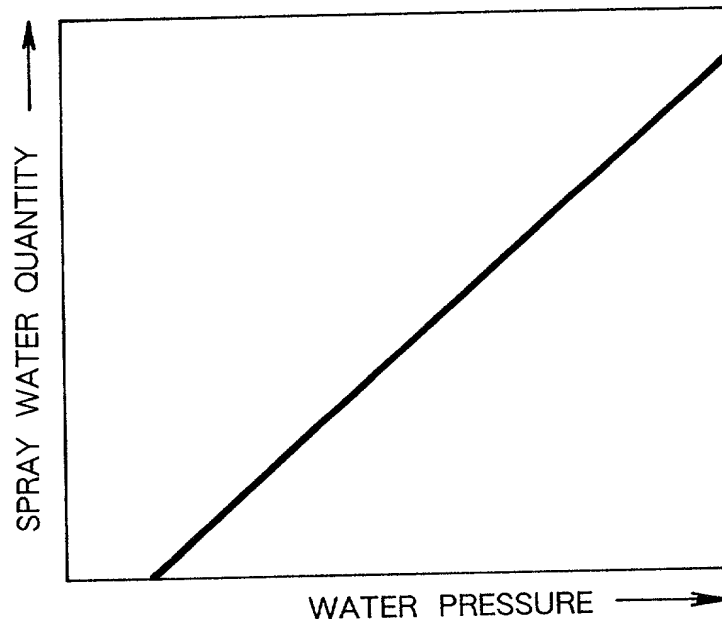


FIG.6

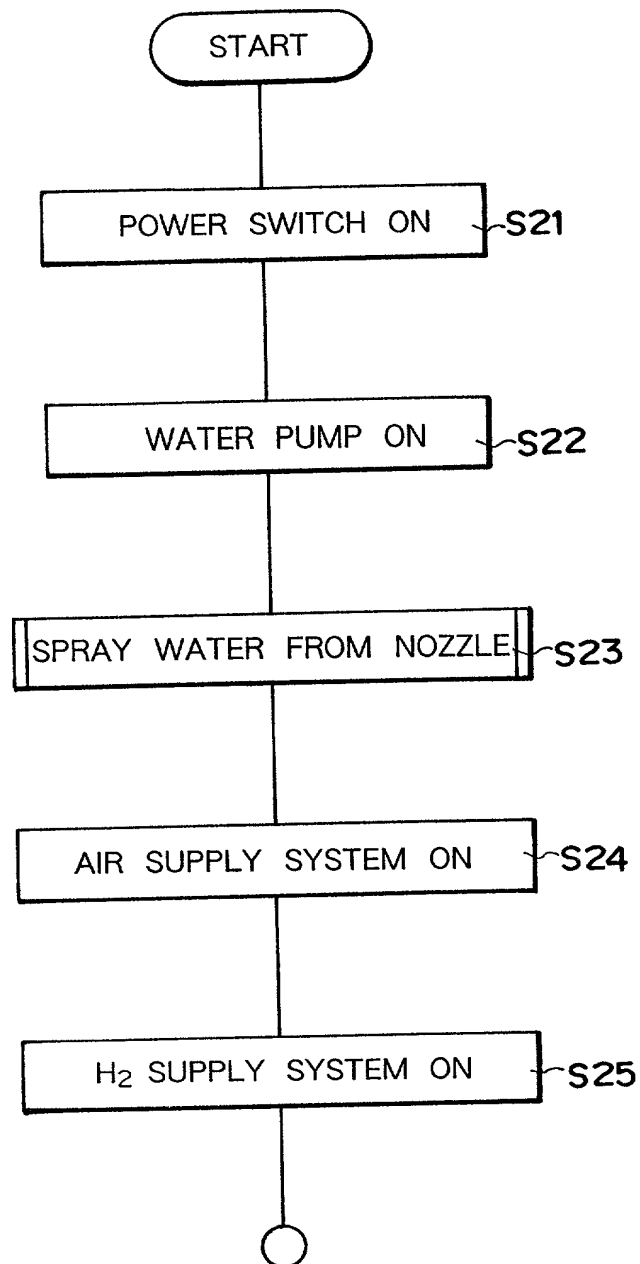


FIG. 7

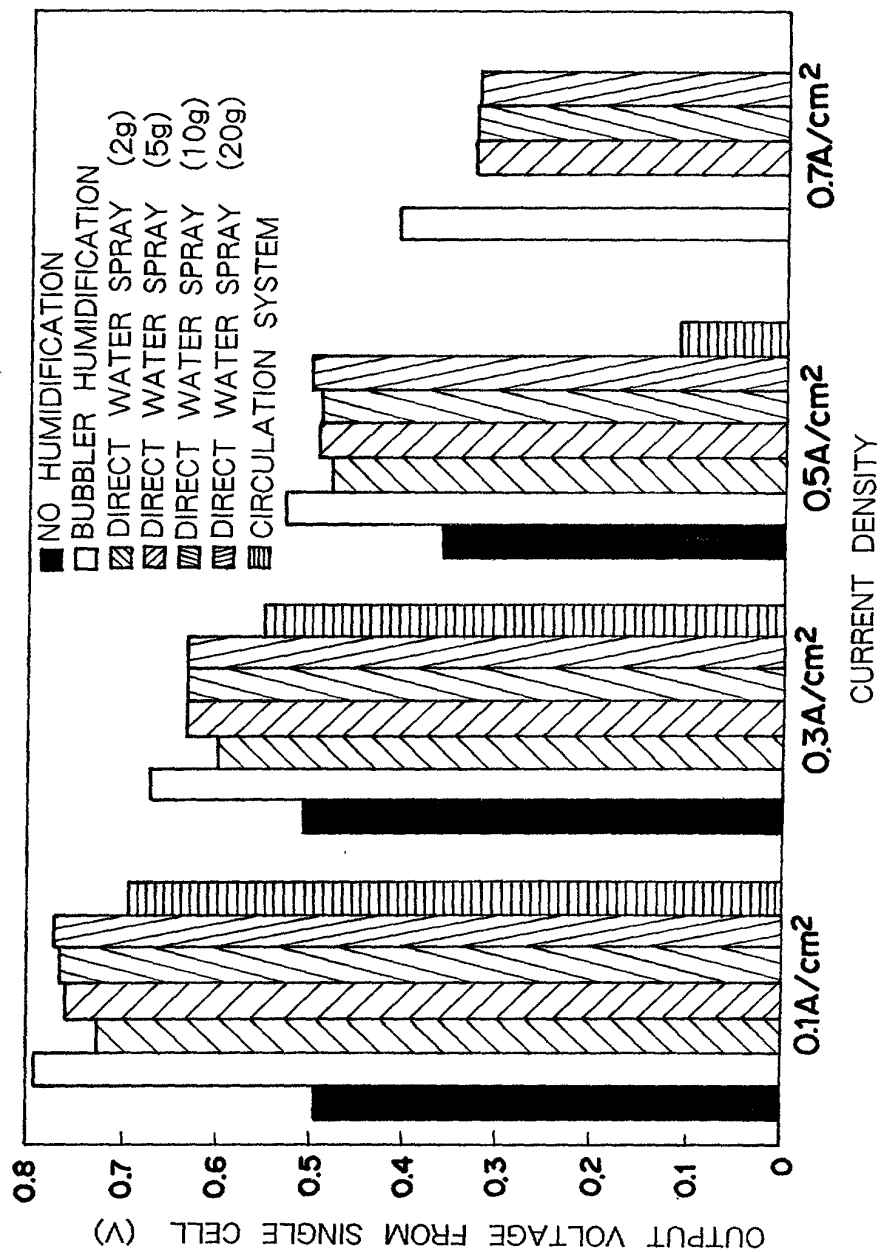


FIG.8

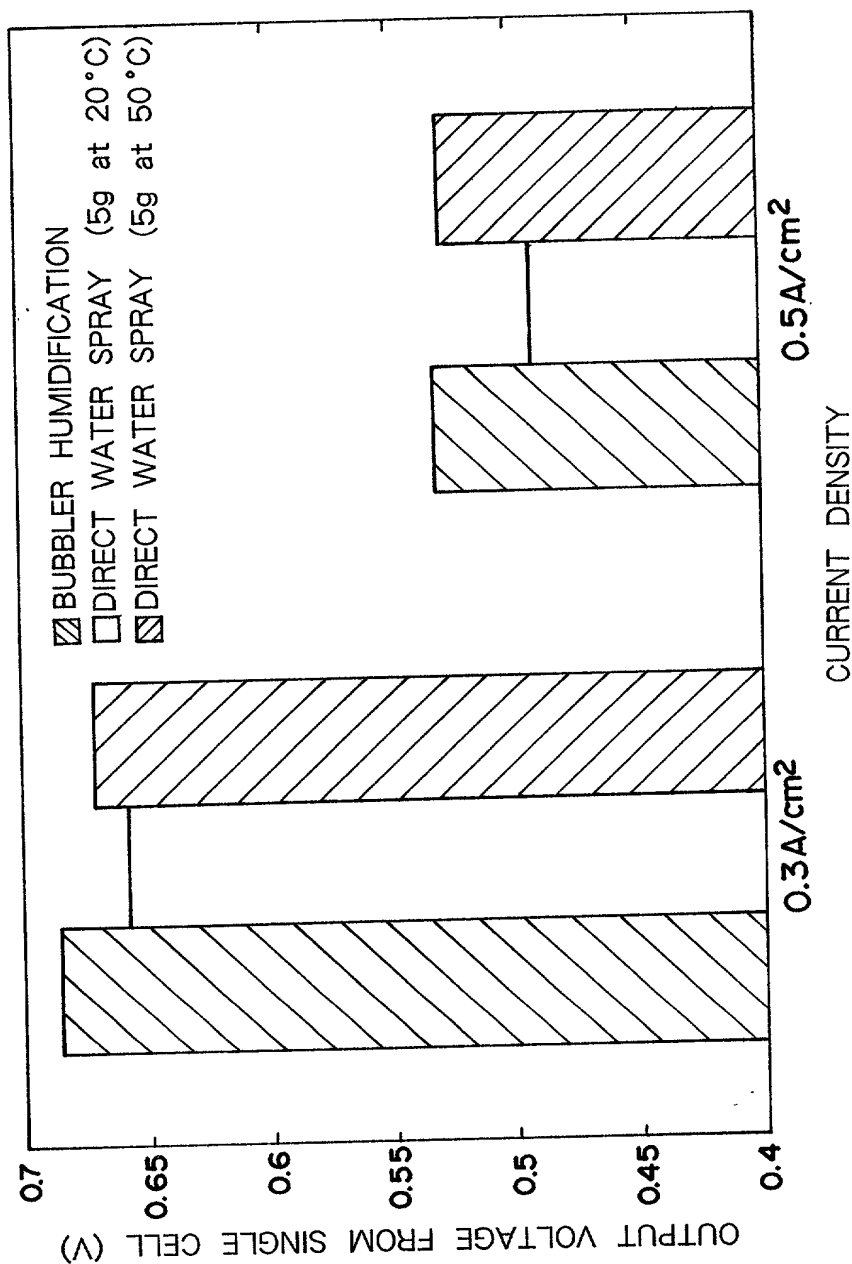


FIG.9

PRIOR ART

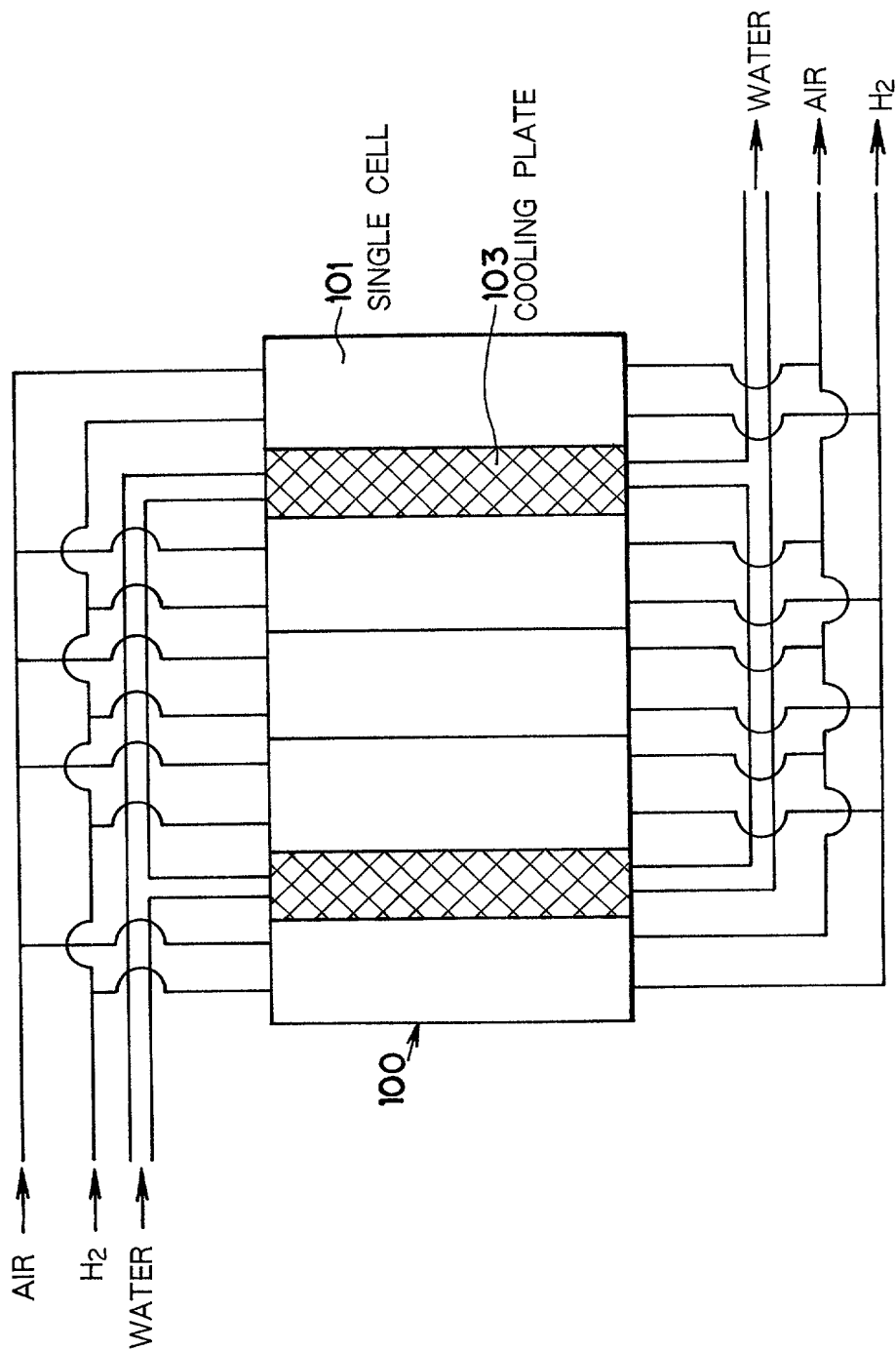


FIG.10

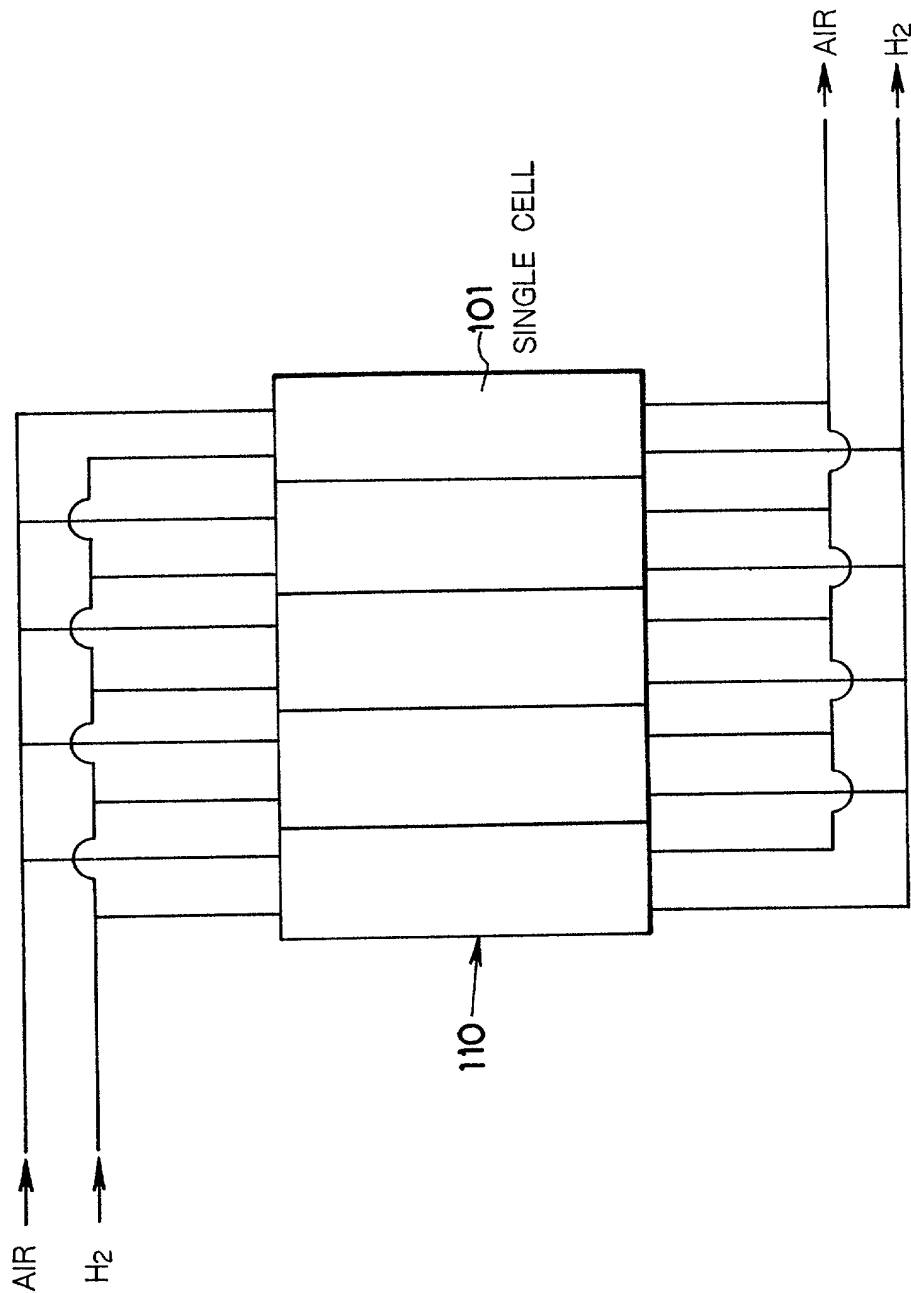


FIG.11

	TEST SAMPLE	1	2	3	4	5	6	7	8	9	10	11	12
CONDITIONS	SPRAY WATER QTY. (g/min. cell)	0	31	40	44	0	31	40	44	0	31	40	44
	SPRAY WATER TEMP. (°C)	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
	AIR FLOW RATE (l/min)	56	56	56	56	56	56	56	56	56	56	56	56
	AIR TEMP. (°C)	26	26	26	26	26	26	26	26	26	26	26	26
	WATER TEMP. (°C) IN COOLING PLATE	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
RESULTS	F/C WALL TEMP. (°C)	35.1	31.3	31.8	31.3	48.5	41	41	40.5	61.4	50.4	49	47.8
	F/C DISCHARG GAS TEMP. (°C)	38.5	33.4	33.4	33.3	57.3	46.8	46.3	46.5	75.7	56.3	55.2	53.6
	WATER TEMP. (°C) AT F/C INLET	39.6	39.5	39.6	39.6	59.3	58.8	59	58.9	78.4	76.9	75	73.5
	WATER TEMP. (°C) AT F/C OUTLET	38.9	34.4	34.1	33.8	57.9	47.8	47.2	46.9	76.7	61	58.7	57.6

FIG.12

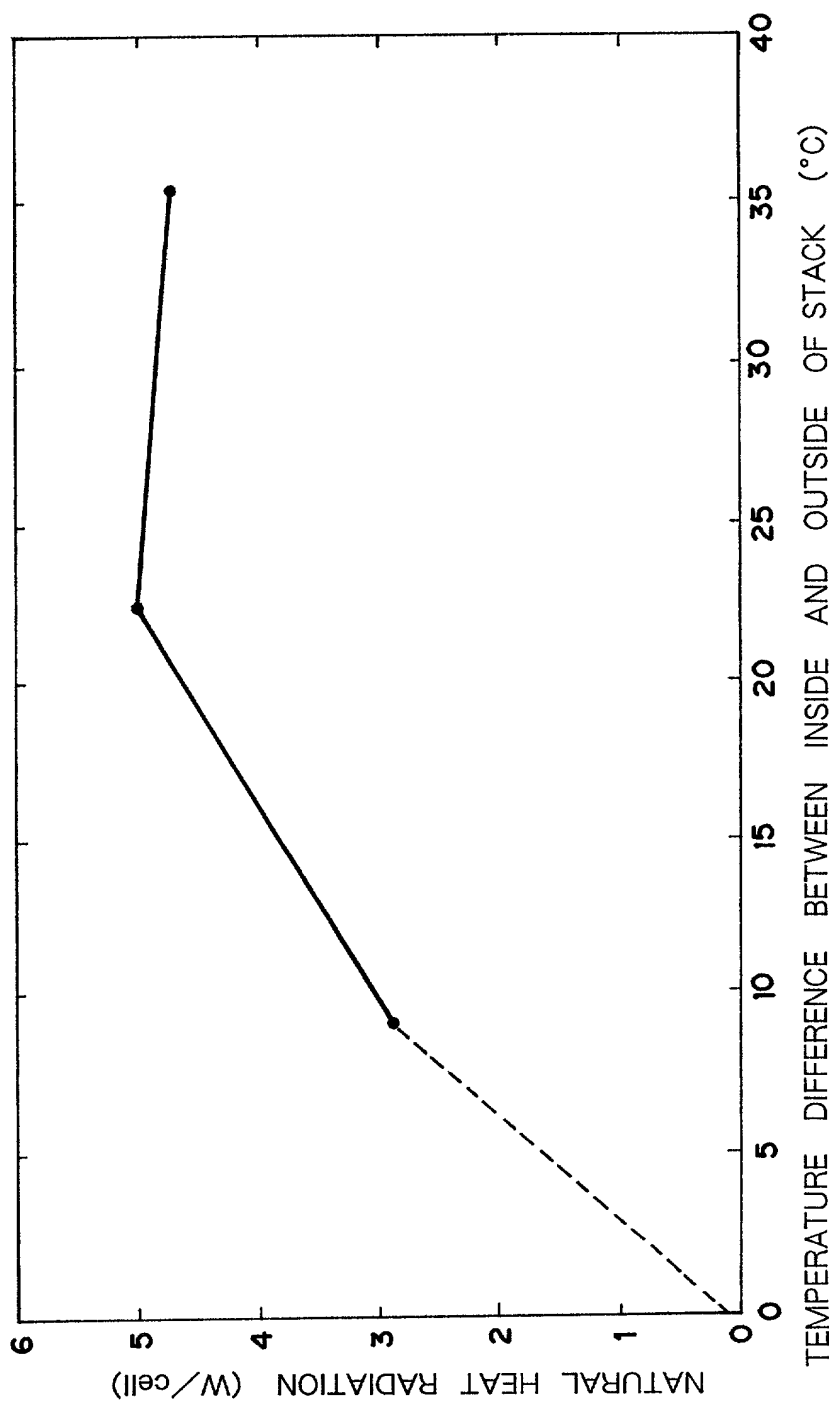


FIG.13

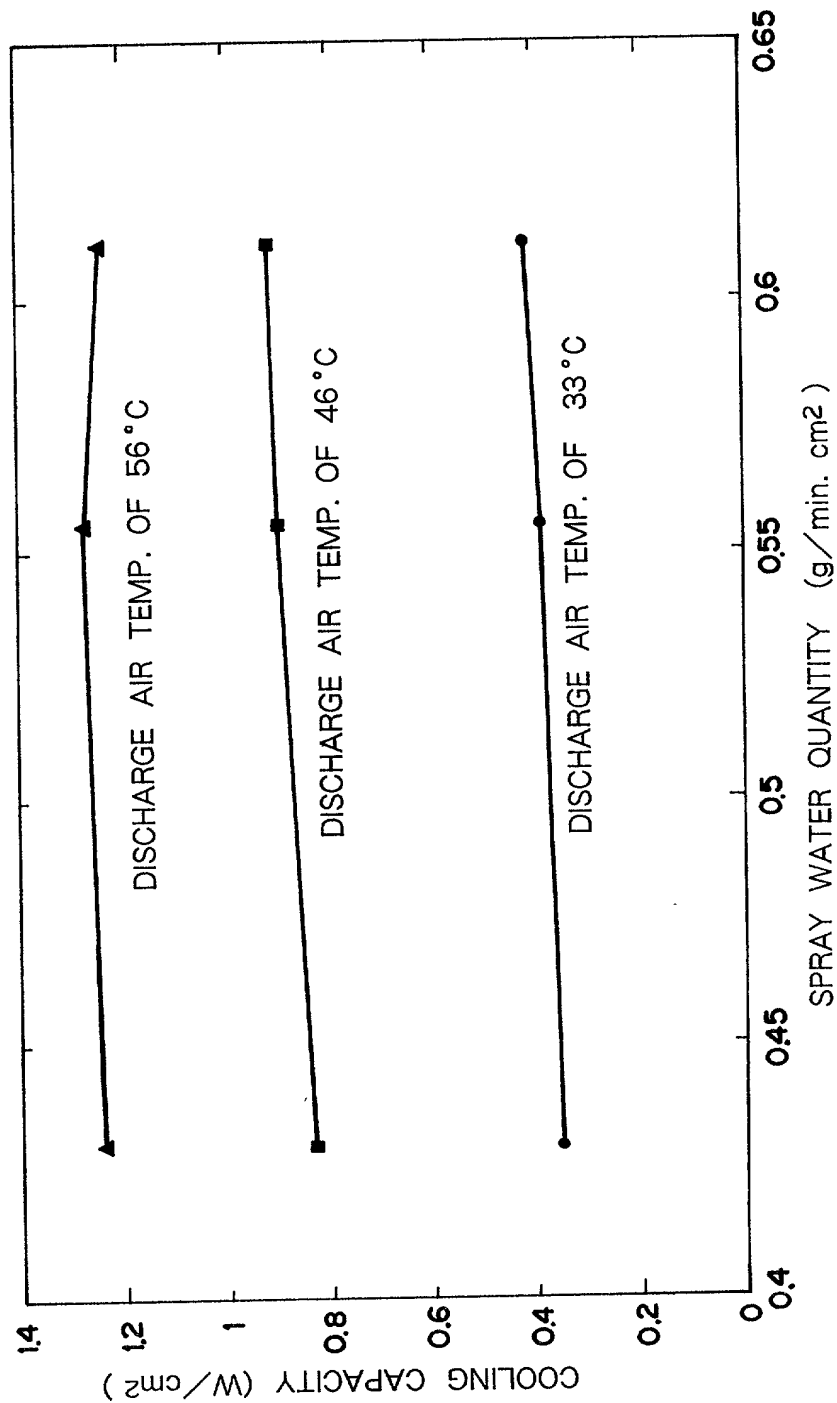


FIG.14

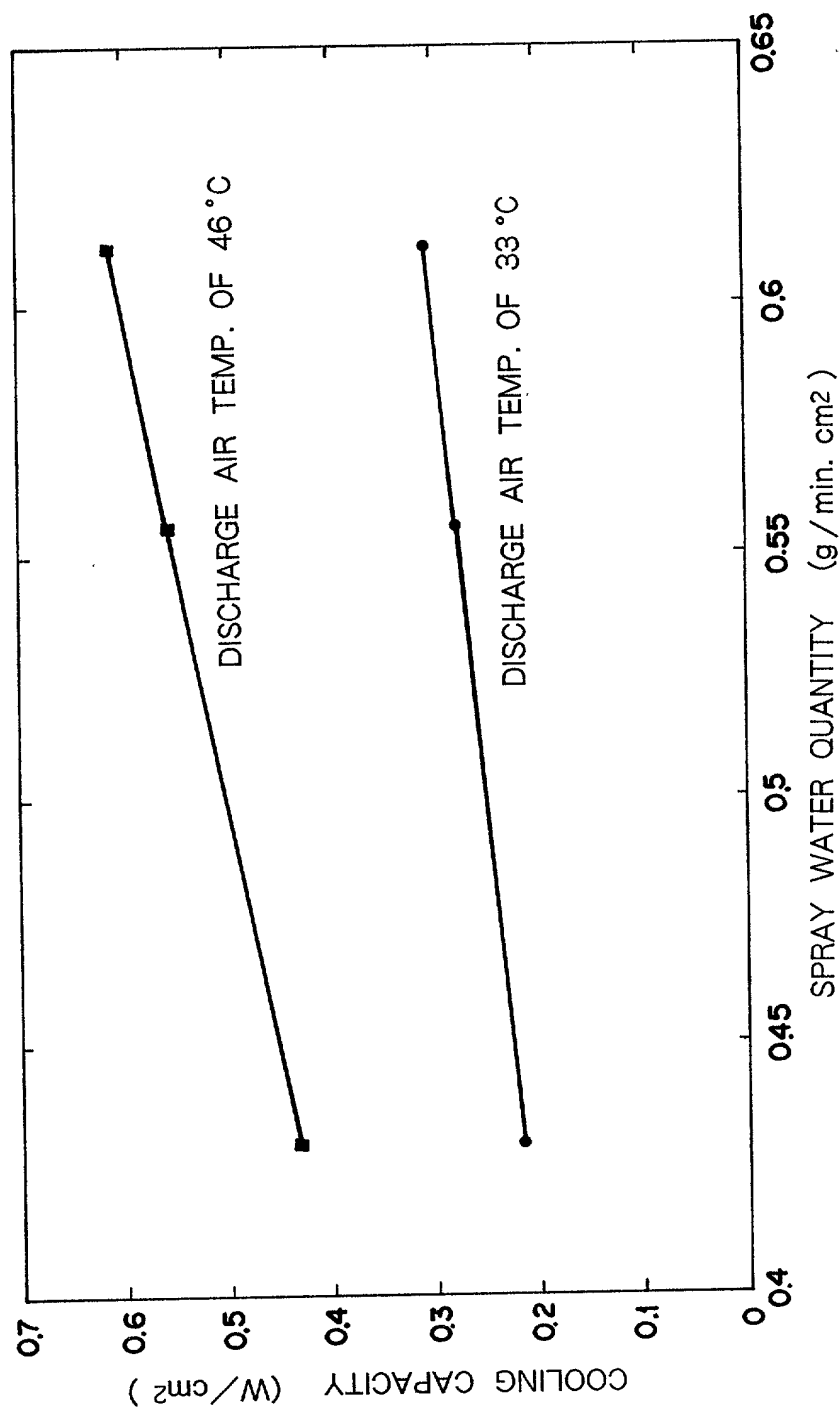


FIG.15

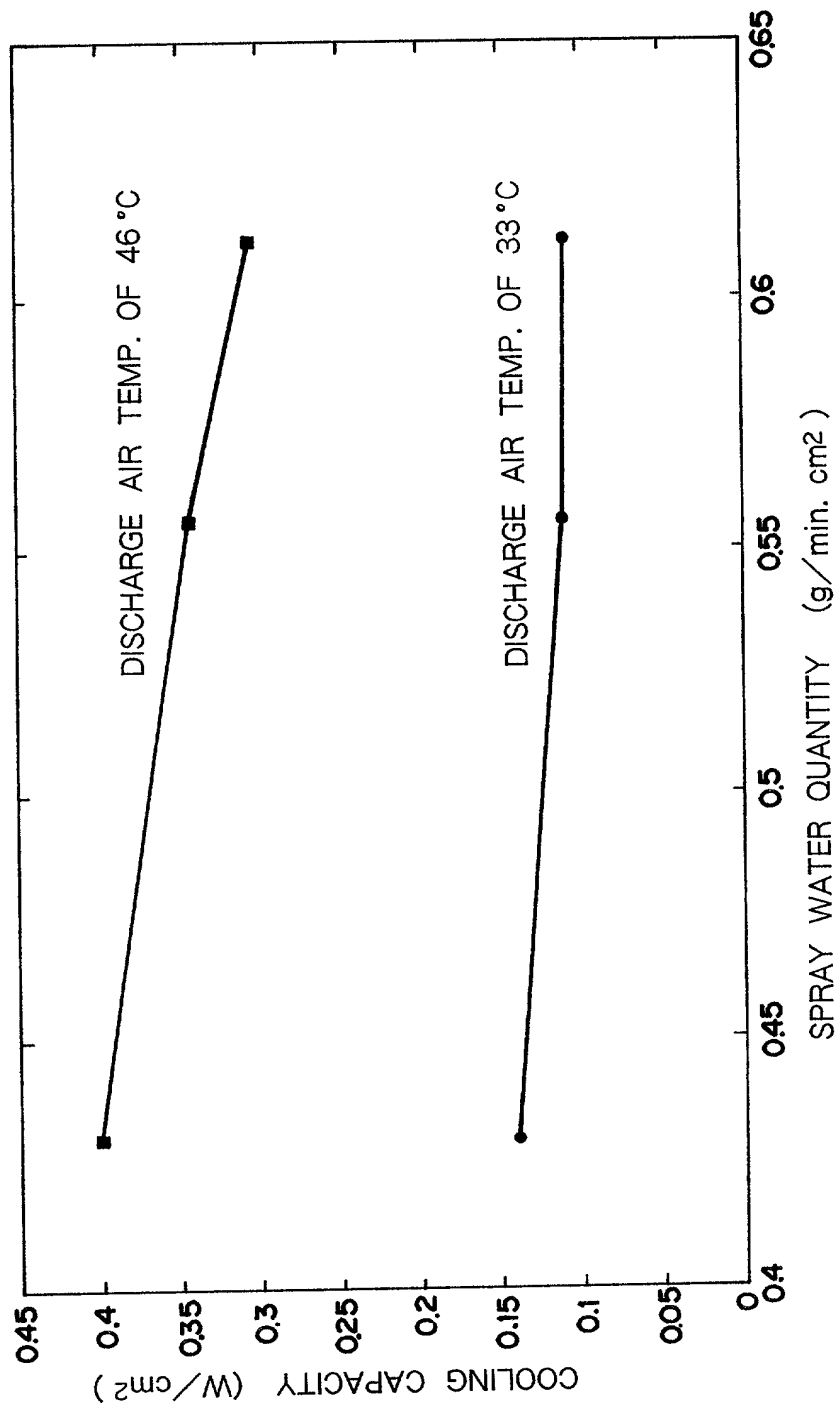


FIG. 16

A line graph showing the relationship between Cooling Capacity (W/cm²) and Discharge Air Temperature (°C). The y-axis ranges from 0 to 0.7 with increments of 0.1. The x-axis ranges from 30 to 70 with increments of 5. A solid line with data points shows a decreasing trend. A horizontal dashed line is drawn at approximately 0.48 W/cm², labeled 'MAXIMUM HEAT GENERATION LEVEL'.

Discharge Air Temperature (°C)	Cooling Capacity (W/cm²)
32	0.15
45	0.40
60	0.65

